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Amendments to the Claims:

1. (Currently amended) A method of converting a taxane molecule having the formula:

wherein

R₁ is hydrogen, an alkyl group, an aryl group, an ester group, an ether group, or a hydroxyl protecting group;

R₂ is hydrogen, an alkyl group, an aryl group, an ester group, an ether group, or a hydroxyl protecting group;

R₄ is hydrogen, an alkyl group, an aryl group, an ester group, an ether group, or a hydroxyl protecting group;

R₇ is hydrogen, an alkyl group, an aryl group, an ester group, an ether group, a glycoside group, an oxo-group, or a hydroxyl protecting group;

 R_{10} is hydrogen, an alkyl group, an aryl group, an ester group, an ether group, or a hydroxyl protecting group;

R is an alkoxy group, an alkyl group, an aryl group, an arylalkyl group, an ether group, heterocyclic group, or a vinyl group; and

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 $R_{
m N}$ is an alkoxy group, an alkyl group, an aryl group, an arylalkyl group, an ether group, or a heterocyclic group, or a vinyl group;

the method comprising the steps of:

reductively deoxygenating the C-3' amide group on the taxane molecule to form an a C-3' imine compound;

hydrolyzing the imine compound to form a primary amine compound; and treating the primary amine compound with a hindered base <u>capable of effecting acyl</u> <u>migration</u> to form another taxane molecule having the formula:

wherein

 R_1 , R_2 , R_4 , R_7 , R_{10} , and $R_{\rm N}$ are as defined above.

- 2. (Previously presented) The method of claim 1 wherein the step of reductively deoxygenating the C-3' amide group on the taxane compound comprises contacting the taxane compound with a transition metal reducing agent.
- 3. (Original) The method of claim 2, wherein the transition metal reducing agent is Schwartz's reagent (zirconocene chloride hydride).
- 4. (Original) The method of claim 2, wherein the transition metal reducing agent is an analogue or derivative of Schwartz's reagent.

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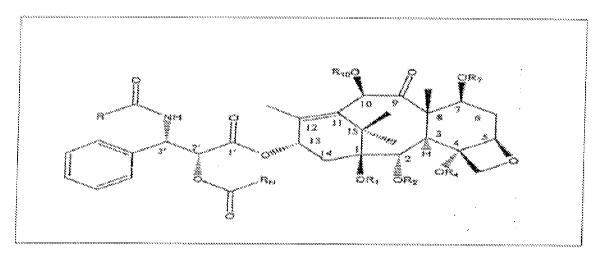
5. (Original) The method of claim 2, wherein the transition metal reducing agent is selected from the group consisting of titanium-containing reducing agents, hafnium-containing reducing agents, niobium-containing reducing agents, and molybdenum-containing reducing agents.

- 6. (Original) The method of claim 1 wherein the step of hydrolyzing the imine compound comprises contacting the imine compound with an acid.
 - 7. (Original) The method of claim 6 wherein the acid is sulfuric acid.
- 8. (Original) The method of claim 1 wherein the step of treating the primary amine compound with a base comprises treating the primary amine compound with triethylamine.
- 9. (Original) The method of claim 1 wherein the step of treating the primary amine compound with a base comprises treating the primary amine compound with triethylamine and anthranilic acid.
- 10. (Original) The method of claim 1, further comprises the step of chelating the transition metal reducing agent or by-products thereof by adding a chelating agent.
- 11. (Original) The method of claim 1, wherein the chelating step comprises chelating the transition metal reducing agent or by-products thereof with a zirconium chelator.
- 12. (Original) The method of claim 11, wherein the chelating step comprises chelating the transition metal reducing agent or by-products thereof with N, N-bis (2-hydroxyethyl) glycine (bicine).

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- 13. (Previously presented) The method of claim 11, wherein the chelating step comprises chelating the transition metal reducing agent or by-products thereof with an agent comprising a chelating agent selected from the group consisting of ethylene diamine tetra acetic acid (EDTA), ethylene glycol (bis) aminoethyl ether tetra acetic acid (EGTA), 1,2-bis- (o-aminophenoxy) ethane-N, N, N', N' -tetra-acetic acid (BAPTA), N, N, N', N'-tetrakis- (2-pyridylmethyl) ethylenediamine (TPEN), nitrilotriacetic acid, TIRON® and analogues and derivatives thereof.
- 14. (Original) The method of claim 1 wherein the imine compound and the primary amine compound are not isolated prior to the next step.
- 15. (Original) The method of claim 1 wherein R_N is phenyl,1-methyl-l-propenyl, n-pentyl, propyl, 1-methyl-propyl, benzyl, 2-furanyl, ortert-butoxy.
- 16. (Previously presented) A method of converting a taxane molecule having the formula:



wherein

R₁ is hydrogen;

R₂ is a benzoyl group;

R₄ is an acetate group;

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R₇ is hydrogen;

R₁₀ is hydrogen or an acetate group;

R is an alkoxy group, an alkyl group, an aryl group, an arylalkyl group, an ether group, heterocyclic group, or a vinyl group; and

 $R_{\rm N}$ is phenyl,1-methyl-l-propenyl, n-pentyl, propyl, 1-methyl-propyl, benzyl, 2-furanyl, or tert-butoxy;

the method comprising the steps of:

reacting the taxane molecule with zirconocene chloride hydride in a solvent to form an imine compound;

hydrolyzing the imine compound to form a primary amine compound; and treating the primary amine compound with a base to form another taxane molecule having the formula:

wherein

 R_1 , R_2 , R_4 , R_7 , R_{10} , and R_N are as defined above.

17. (Original) The method of claim 16 wherein the step of reacting the taxane molecule comprises reacting the taxane molecule with about 3 or more molar equivalents of zirconocene chloride hydride.

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- 18. (Original) The method of claim 17 wherein reacting the taxane molecule with zirconocene chloride hydride comprises reacting the taxane molecule with zirconocene chloride hydride at a temperature below about 15° C.
 - 19. (Original) The method of claim 16 wherein the solvent is tetrahydrofuran.
- 20. (Original) The method of claim 16 wherein the step of hydrolyzing the imine compound comprises treating the imine compound with an acid.
- 21. (Previously presented) The method of claim 20, wherein the step of hydrolyzing the imine compound comprises treating the imine compound with sulfuric acid.
- 22. (Original) The method of claim 16, wherein the step of treating the primary amine compound with a base comprises treating the primary amine compound with triethylamine.
- 23. The method of claim 16, wherein the step of treating the primary (Original) amine compound with base comprises treating the primary amine compound with triethylamine and anthranilic acid.
- 24. (Original) The method of claim 16 comprising the step of chelating the zirconocene chloride hydride and other zirconium by-products prior to hydrolyzing the imine compound with a chelating agent.
- 25. (Original) The method of claim 16, wherein the chelating step comprises chelating the transition metal reducing agent or by-products thereof with N, N-bis (2hydroxyethyl) glycine (bicine).
- 26. (Previously presented) The method of claim 16, wherein the chelating step comprises chelating the transition metal reducing agent or by-products thereof with an agent

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comprising a chelating agent selected from the group consisting of ethylene diamine tetra acetic acid (EDTA), ethylene glycol (bis) aminoethyl ether tetra acetic acid (EGTA), 1,2-bis- (o-aminophenoxy)ethane-N, N, N', N' -tetraacetic acid (BAPTA), N, N, N', N'-tetrakis- (2-pyridylmethyl) ethylenediamine (TPEN), nitrilotriacetic acid, TIRON® and analogues and derivatives thereof.

- 27. (Original) The method of claim 16 wherein R_{10} is hydrogen.
- 28. (Original) The method of claim 27 wherein R_N is phenyl, and R is phenyl, 1-methyl-1- propenyl, n-pentyl, propyl, 1-methyl-propyl, benzyl,2-furanyl, or *tert*-butoxy.
- 29. (Original) The method of claim 27 wherein R_N is 1-methyl-l-propenyl, and R is phenyl, 1-methyl-1-propenyl, n-phetyl, propyl, 1-methyl-propyl, benzyl, 2-furanyl, or tert butoxy.
- 30. (Original) The method of claim 27 wherein R_N is n-pentyl, and R is phenyl, 1-methyl-1- propenyl, n-pentyl, propyl, 1-methyl-propyl, benzyl, 2-furanyl, or *tert*-butoxy.
 - 31. (Original) The method of claim 16 wherein R_{10} is an acetate group.
- 32. (Original) The method of claim 31 wherein R_N is phenyl, and R is phenyl, 1-methyl-1- propenyl, n-pentyl, propyl, 1-methyl-propyl, benzyl, 2-furanyl, or *tert*-butoxy.
- 33. (Original) The method of claim 31 wherein R_N is 1-methyl-1-propenyl, and R is phenyl, 1-methyl-1-propenyl, n-phetyl, propyl, 1-methyl-propyl, benzyl,2-furanyl, or tert butoxy.
- 34. (Original) The method of claim 31 wherein R_N is n-pentyl, and R is phenyl,1-methyl-1- propenyl, n-pentyl, propyl, 1-methyl-propyl, benzyl, 2-furanyl, or *tert*-butoxy.

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35. (Original) The method of claim 35, further comprises the step of dictating the zirconocene chloride hydride and other zirconium by-products thereof by adding a chelating agent.

- 36. (Original) The method of claim 35, wherein the chelating step comprises adding zirconium chelator.
- 37. (Original) The method of claim 35, wherein the chelating step comprises chelating the transition metal reducing agent or by-products thereof with N, N-bis (2-hydroxyethyl) glycine (bicine).
- 38. (Previously presented) The method of claim 35, wherein the chelating step comprises adding a chelating agent comprising a chelating agent selected from the group consisting of ethylene diamine tetra acetic acid (EDTA), ethylene glycol (bis) aminoethyl ether tetra acetic acid (EGTA), 1, 2-bis- (O-aminophenoxy) ethane-N, N, N',N'-tetra-acetic acid (BAPTA), N, N, N', N'-tetrakis- (2-pyridylmethyl) ethylenediamine (TPEN), nitrilotriacetic acid, TIRON® or analogues thereof.
- 39. (Original) The method of claims 1 or 16, further comprising the step of removing substantially all of the transition metal or transition metal by-products by complexation, precipitation, filtration, centrifugation, electrochemical methodology, chromatography, chelation or any combination thereof.
- 40. (Currently amended) A method of converting an acyl-protected taxane molecule, the method comprising the steps of:

reductively deoxygenating an amide group on the taxane molecule to form an imine compound;

hydrolyzing the imine compound to form a primary amine compound; and treating the primary amine compound with a hindered base to effect capable of effecting acyl migration and to form another taxane molecule.

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41. (Previously presented) The method of claim 40, wherein the step of reductively deoxygenating an amide group on the taxane compound comprises conducting the taxane compound with a transition metal reducing agent.

- 42. (Original) The method of claim 40, wherein the step of hydrolyzing the imine compound comprises contacting the imine compound with an acid.
- 43. (Original) The method of claim 40, wherein the step of treating the primary amine compound with a base comprises treating the primary amine compound with triethylamine.